

*Fossil Shells discovered by Capt. HAY, 1st European Regiment, in the neighbourhood of Bajgah, Afghanistan.**

The fossil shells of which the accompanying are rough sketches, were all found by myself in the range of mountains between the Dundan, Shikun, and Karekotal passes; in fact nearly the whole at Bajgah. The formations in which they are found are so various, that I shall leave better geologists to describe them, but they are chiefly found in contorted strata.

No. 1. *a* and *b*. two views of the same shell.

2. Upper and under views of, apparently, the inhabitant of a shell; edges carinated: it is imperfect.

3. Tuberculated, and considerably depressed.

4. *Plagiostoma*?

5. A fragment only.

6. *Gryphæa*. There are no less than six species of *Gryphæa* (I think) found here.

7. Puzzles me. In appearance it is a *Haliotis*; but I have seen some specimens with the remains of a second valve; in which case it would approach the *Gryphæa*.

So many of the *Gryphæa* being found here, would argue that the water had formerly been of a considerable depth. Masses of them are found, and apparently adhering to the rocks, which they cover so thick and regularly, as to be quite a coat of mail.

8. Apparently a Univalve.

9, 10, 11, 12. Fragments of Bivalves.

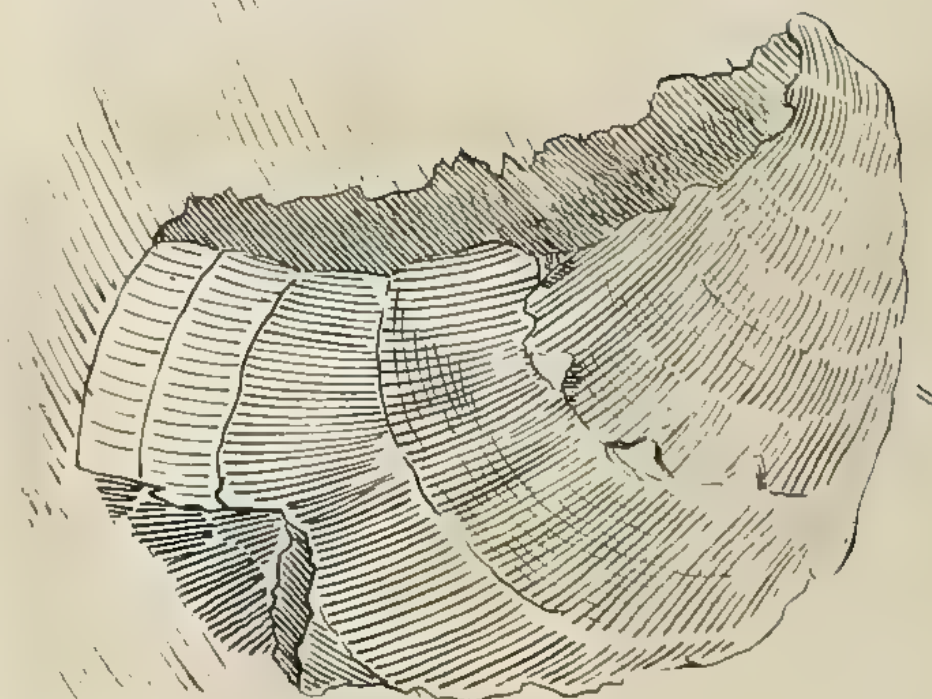
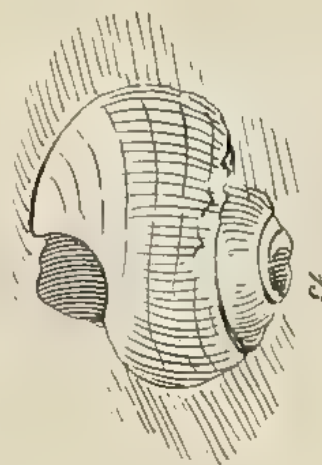
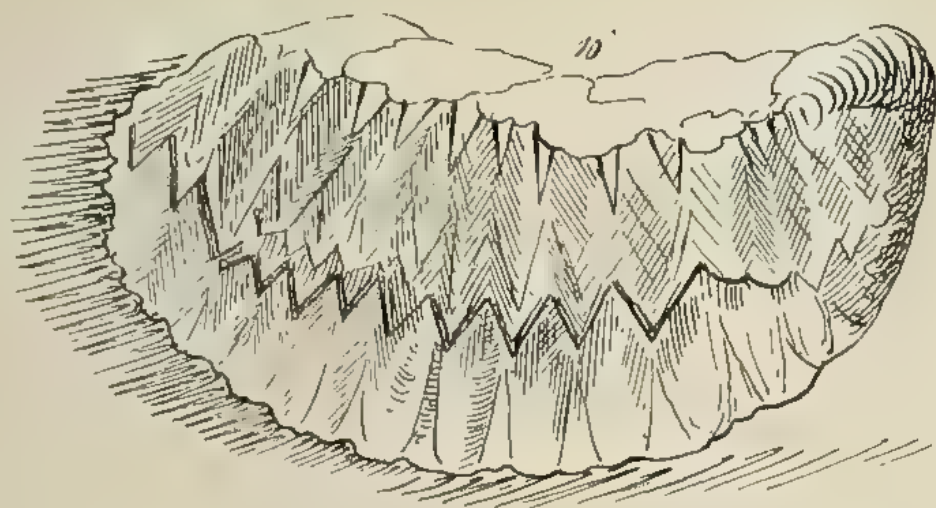
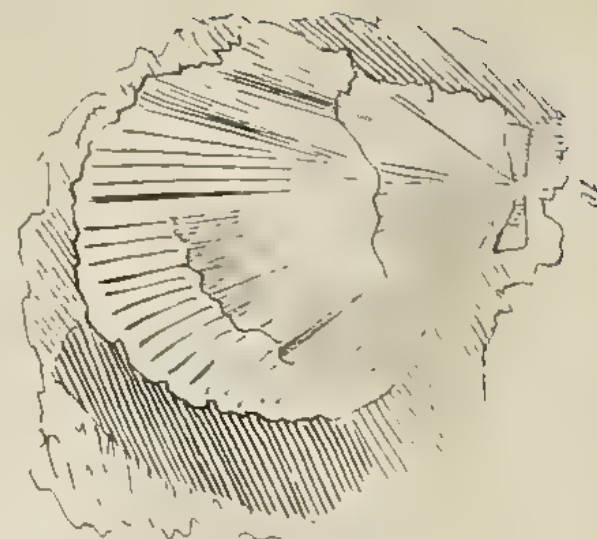
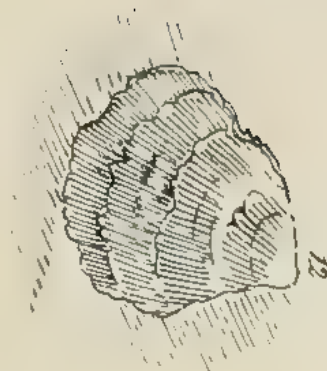
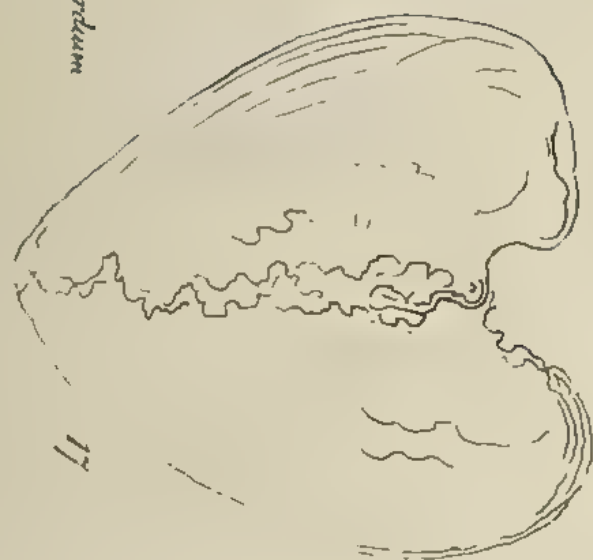
13. Univalve costated.

14, 15, 16, 17. Bivalves. Specimens of 16 very perfect and closed.

18, 19, 20, and 21. Outlines of four species of *Gryphæa*? all of natural size.

* NOTE.—The publication of these drawings has, I regret to say, been long delayed owing to circumstances I could not controul. The fossils whence these are taken “with many other valuable collections of geological specimens,” says Capt. Hay, “and all my drawings,” were lost when H. M. Shah Shooja’s 4th Regt. of Infantry retired from Bajgah.

Cardium



All these are of the Natural Size

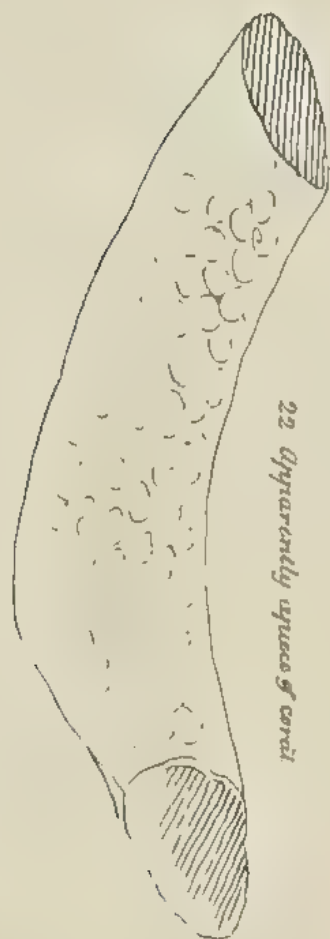


18 p. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

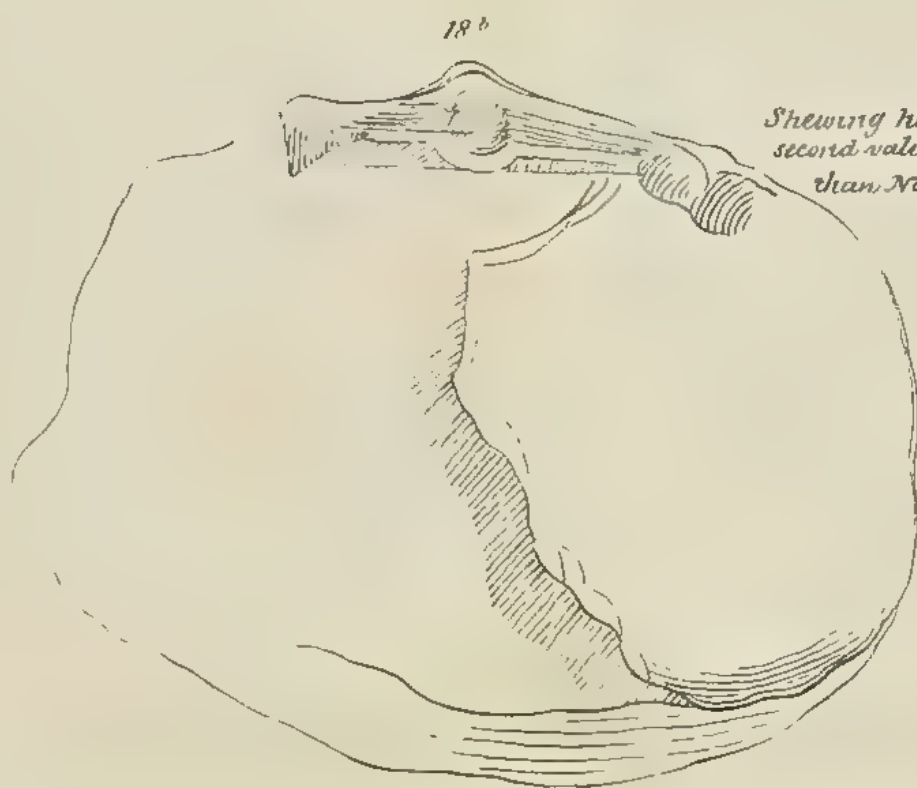


18^a

Gryphaea Natural Size



22 Apparently apices of corals

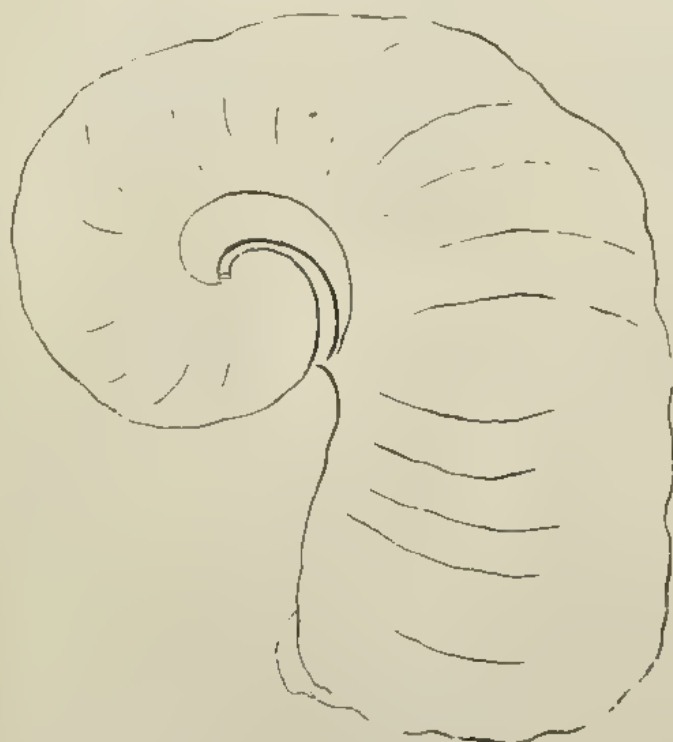


18^b

Shewing hinge & part of second valve adhering: less than Natural Size

19 *Gryphaea*

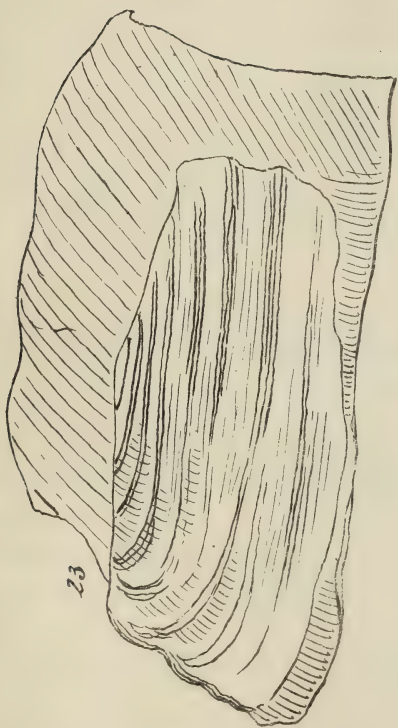
20 *Gryphaea*



very much in carved



24



23

22. Piece of Coral ?

23. Has passed into Limestone.

24. Cavity formed in a conglomerate by a *Teredo* : but the fish itself, which is petrified, resembles a cork-screw ; they are of various sizes, all larger at one end than the other.

I have many other shells difficult to sketch, and two species of *Cidaris*

I should be glad to have correct drawings presented to the Society, as the distance is so great, that the probability is my collection may never reach India, or even the eyes of a connoisseur. Each shell having fragments of the rock adhering, will also enable me to classify their geology whenever I may meet an experienced individual.

It may be well to state, that I met with no shells in any of the mountain formations between Cabool and Syghan, where fragments are first observable in a yellow sandstone.

The level of Bajgah above the sea is about equal to that of Cabool.

Proceedings of the Asiatic Society.

(Friday Evening, 5th March, 1841.)

The Hon'ble Sir E. RYAN in the chair.

Capt. W. SMITH, proposed at the last Meeting, was ballotted for, and duly elected, to whom the necessary communication of his election, and rules of the Society for guidance, was ordered to be forwarded.

The following gentlemen were proposed as Members ; viz.

WELBY BROWN JACKSON, Esq. C. S. proposed by J. S. TORRENS, Esq., seconded by the Secretary.

FREDERICK BEAUFORD, Esq. C. S. proposed by J. S. TORRENS, Esq., seconded by the Secretary.

WILLIAM MASTERS, Esq. Head Teacher, La Martiniere, proposed by Dr. J. M'CLELLAND, seconded by the Secretary.

Library and Museum.

Lardner's Cabinet Cyclopædia;—Geometry,	....	....	....	....	1
Smith's Miner's Guide, London, 1836, 8vo...	....	....	....	....	1
Chart to ditto, ditto,	....	....	..	....	1
Naturalist's Library;—Mammalia; Natural History of Dogs, by H. Smith,					
vol. 1st, Edinburgh, 1840, 8vo.	....	..	....	....	1